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* * * * * Welcome to STN International * * * * *

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NEWS 5 AUG 30 CA/CAPLUS - Increased access to 19th century research documents
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NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 SEP 22 MATHDI to be removed from STN

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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:33:47 ON 30 SEP 2005

=> s young kathleen/au

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file medline biosis embase caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 08:34:10 ON 30 SEP 2005

FILE 'BIOSIS' ENTERED AT 08:34:10 ON 30 SEP 2005

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=> s young kathleen/au

L1 12 YOUNG KATHLEEN/AU

=> s rhodes kenneth/au

L2 17 RHODES KENNETH/AU

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal (s) region) (a) (reporter (s) gene)

PROXIMITY OPERATION NOT ALLOWED

Certain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However, '((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal (s) region) AND (reporter (s) gene)

L3 0 (POTASSIUM (S) CHANNEL (S) INTRACELLULAR (S) RECEPTOR (S) AMINO (S) TERMINAL (S) REGION) AND (REPORTER (S) GENE)

=> s (potassium (s) channel (s) intracellular (s) receptor (s) amino (s) terminal) AND (reporter (s) gene)

L4 0 (POTASSIUM (S) CHANNEL (S) INTRACELLULAR (S) RECEPTOR (S) AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (potassium (s) channel) AND (intracellular (s) receptor) AND (amino (s) terminal) AND (reporter (s) gene)

L5 1 (POTASSIUM (S) CHANNEL) AND (INTRACELLULAR (S) RECEPTOR) AND (AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (potassium (s) channel) AND shaker AND (amino (s) terminal) AND (reporter (s) gene)

L6 0 (POTASSIUM (S) CHANNEL) AND SHAKER AND (AMINO (S) TERMINAL) AND (REPORTER (S) GENE)

=> s (shaker (s) potassium (s) channel) AND (reporter (s) gene)

L7 19 (SHAKER (S) POTASSIUM (S) CHANNEL) AND (REPORTER (S) GENE)

=> dup rem l7

PROCESSING COMPLETED FOR L7

L8 11 DUP REM L7 (8 DUPLICATES REMOVED)

=> d l8 total ibib kwic

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:435383 CAPLUS

DOCUMENT NUMBER: 139:18342

TITLE: Collections of transgenic animal lines with subsets of cells characterized by expression of an endogenous marker gene and uses

INVENTOR(S): Serafini, Tito Andrew

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 77 pp., Cont.-in-part of U.S. Ser. No. 783,487.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003106074	A1	20030605	US 2002-77025	20020214
US 2003051266	A1	20030313	US 2001-783487	20010214
PRIORITY APPLN. INFO.:			US 2001-783487	A2 20010214

IT Genetic element

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(IRES (internal ribosomal entry site) element, operably linked to **reporter gene**; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (activator of **reporter gene**, transgene encoding; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

IT Escherichia coli

(as expression host, **reporter gene** carried out in; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

IT Animal cell line

(collection, expressing **reporter gene**; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

IT Transgene

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (comprising **reporter gene** followed by animal line characterizing endogenous **gene**; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

IT Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study) (voltage-gated, **Shaker**, isoforms, gene for, as characteristic marker for transgenic mouse; collections of transgenic animal lines with subsets of cells characterized by expression of endogenous marker **gene** and uses)

L8 ANSWER 2 OF 11 MEDLINE on STN

DUPLICATE 1

ACCESSION NUMBER: 2003161332 MEDLINE

DOCUMENT NUMBER: PubMed ID: 12678562

TITLE: Regulated expression of Arabidopsis shaker K+ channel genes involved in K+ uptake and distribution in the plant.
 AUTHOR: Pilot Guillaume; Gaymard Frederic; Mouline Karine; Cherel Isabelle; Sentenac Herve
 CORPORATE SOURCE: Biochimie et Physiologie Moleculaire des Plantes, UMR 5004, Agro-M/CNRS/INRA/UM2, 34060 Montpellier Cedex 1, France.
 SOURCE: Plant molecular biology, (2003 Mar) 51 (5) 773-87.
 Journal code: 9106343. ISSN: 0167-4412.
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200304
 ENTRY DATE: Entered STN: 20030408
 Last Updated on STN: 20030422
 Entered Medline: 20030421

AB . . . by the root, K+ secretion into the xylem sap and K+ transport in the phloem tissues, respectively. Using the GUS **reporter** strategy, we have found that another Shaker channel **gene**, AtKCl1, is expressed in epidermal and cortical cells in roots (supporting the hypothesis of a role in K+ uptake from. . .

RN 143403-88-7 (**Shaker potassium channels**); 21293-29-8 (Absciscic Acid); 7440-09-7 (Potassium); 7647-14-5 (Sodium Chloride); 94-75-7 (2,4-Dichlorophenoxyacetic Acid)

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:637801 CAPLUS

DOCUMENT NUMBER: 137:180780

TITLE: Collections of transgenic animal lines in which a subset of cells characterized by expression of an endogenous "characterizing" gene and uses

INVENTOR(S): Serafini, Tito Andrew

PATENT ASSIGNEE(S): Renovis, Inc., USA

SOURCE: PCT Int. Appl., 170 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002064749	A2	20020822	WO 2002-US4765	20020214
WO 2002064749	A3	20030320		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003051266	A1	20030313	US 2001-783487	20010214
PRIORITY APPLN. INFO.:			US 2001-783487	A 20010214

IT Codons

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(AUG, start, of characterizing endogenous **gene**, **reporter gene** fused in frame to; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Genetic element

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (IRES (internal ribosomal entry site) element, operably linked to **reporter gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transcription factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (activator of **reporter gene**, transgene encoding; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Escherichia coli
 (as expression host, **reporter gene** carried out in; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Animal cell line
 (collection, expressing **reporter gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transgene
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (comprising **reporter gene** followed by animal line characterizing endogenous **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Enzymes, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (detectable, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT **Gene**, animal
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (endogenous, as line characterizing **gene**, **reporter gene** fused to; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Proteins
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (fluorescent, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Proteins
 RL: ARU (Analytical role, unclassified); ANST (Analytical study).
 (green fluorescent, **reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Genetic element
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (regulatory, of **reporter gene**, activator or repressor controlling; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Transcription factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (repressors, of **reporter gene**, transgene encoding; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT **Reporter gene**

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(system **gene**, operably linked to endogenous regulatory sequence, followed by characterizing endogenous **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Animal

Mus

(transgenic, comprising **reporter gene** and characterizing **gene**; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study) (voltage-gated, **Shaker**, **shaker**-related, KCNA2, KCNA3, KCNA4, KCNA4L, KCNA5, KCNA6, KCNA7, KCNA10, characterizing genes for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study) (voltage-gated, **shaker**-related, KCNAB1, KCNAB2, KCNAB3 characterizing genes for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

IT 9073-60-3, β -Lactamase

RL: ARU (Analytical role, unclassified); ANST (Analytical study) (**reporter gene** for; collections of transgenic mouse lines in which subset of neurons characterized by expression of endogenous "characterizing" **gene**)

L8 ANSWER 4 OF 11

MEDLINE on STN

DUPLICATE 2

ACCESSION NUMBER: 2002157972 MEDLINE

DOCUMENT NUMBER: PubMed ID: 11842160

TITLE: A grapevine gene encoding a guard cell K(+) channel displays developmental regulation in the grapevine berry.

AUTHOR: Pratelli Rejane; Lacombe Benoit; Torregrosa Laurent; Gaymard Frederic; Romieu Charles; Thibaud Jean-Baptiste; Sentenac Herve

CORPORATE SOURCE: Biologie du Developpement des Plantes Perennes Cultivees, Unite Mixte de Recherche 1098 Agro-M/Centre de Cooperation Internationale en Recherche Agronomique pour le Developpement, 2 place Viala, F-34060 Montpellier cedex 1, France.

SOURCE: Plant physiology, (2002 Feb) 128 (2) 564-77.

Journal code: 0401224. ISSN: 0032-0889.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200206

ENTRY DATE: Entered STN: 20020314

Last Updated on STN: 20020628

Entered Medline: 20020627

AB . . . channel displaying functional properties very similar to those of KAT2. The activity of SIRK promoter region fused to the GUS **reporter gene** was analyzed in both grapevine and Arabidopsis. Like other KAT-like channels, SIRK is expressed in guard cells. In Arabidopsis, the . . .

RN 143403-88-7 (**Shaker potassium channels**); 7732-18-5 (Water)

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:842304 CAPLUS

DOCUMENT NUMBER: 134:13998

TITLE: Two-hybrid method to detect interaction between two specific proteins in mammalian cell
 INVENTOR(S): Tsukahara, Kappei; Hida, Takayuki; Nakamura, Katsuji; Yoshitomi, Hideki
 PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071743	A1	20001130	WO 2000-JP3353	20000525
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: JP 1999-144946 A 19990525
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB A method is described for efficiently detecting the interaction between a first protein and a second protein in mammalian cell by a two-hybrid method. The method uses the mammalian cell possessing the DNA carrying a **reporter gene** (e.g., secretory alkaline phosphatase **gene**, β -galactosidase **gene**) ligated in the downstream of the base sequence binding to a DNA-binding domain (e.g., GAL4 DNA-binding domain). The interaction between the first protein and the second protein is recognized by detecting the expression of the **reporter gene** upon expressing a fusion protein of the first protein with two or more, identical or non-identical transcriptional activation domains (e.g., VP-16 transcriptional activation domain, p53 transcriptional activation domain), and another fusion protein of the second protein with the DNA-binding domain. The interaction was detected with a high sensitivity using this method between src-SH3 protein and a peptide containing proline-rich motif, and between a peptide containing PDZ sequence in hDlg protein and a peptide containing the C-terminal sequence of Shaker-type K channel (Kv1.4).

ST two hybrid method fusion protein interaction; **reporter gene** expression transcriptional activation protein
 IT **Potassium channel**

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(Shaker-type; C-terminus; two-hybrid method to detect interaction between two specific proteins in mammalian cell)

IT DNA

Reporter gene

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process);
 USES (Uses)

(two-hybrid method to detect interaction between two specific proteins in mammalian cell)

L8 ANSWER 6 OF 11 MEDLINE on STN

ACCESSION NUMBER: 2000387631 MEDLINE

DOCUMENT NUMBER: PubMed ID: 10908607

TITLE: Viral gene transfer of dominant-negative Kv4 construct suppresses an O2-sensitive K⁺ current in chemoreceptor cells.

AUTHOR: Perez-Garcia M T; Lopez-Lopez J R; Riesco A M; Hoppe U C; Marban E; Gonzalez C; Johns D C

CORPORATE SOURCE: Instituto de Biologia y Genetica Molecular, Universidad de Valladolid y Consejo Superior de Investigaciones Cientificas, Departamento de Bioquimica y Biologia

Molecular y Fisiologia, Valladolid, Spain..
tperez@ibgm.uva.es
P50 HL52307 (NHLBI)

CONTRACT NUMBER: P50 HL52307 (NHLBI)
SOURCE: Journal of neuroscience : official journal of the Society
for Neuroscience, (2000 Aug 1) 20 (15) 5689-95.
Journal code: 8102140. ISSN: 0270-6474.

PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200008
ENTRY DATE: Entered STN: 20000818
Last Updated on STN: 20000818
Entered Medline: 20000810

AB . . . of the constructs into chemoreceptor cells has been achieved with
adenoviruses that enabled ecdysone-inducible expression of the
dominant-negative constructs and **reporter genes** in
polycistronic vectors. In voltage-clamp experiments, we found that,
whereas adenoviral infections of chemoreceptor cells with Kvl.xDN did not
modify. . .

RN **143403-88-7 (Shaker potassium channels)**; 4368-28-9
(Tetrodotoxin); 7440-09-7 (Potassium); 7782-44-7 (Oxygen)

L8 ANSWER 7 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 3
ACCESSION NUMBER: 2000:369641 BIOSIS
DOCUMENT NUMBER: PREV200000369641
TITLE: A shaker-like K⁺ channel with weak rectification is
expressed in both source and sink phloem tissues of
Arabidopsis.
AUTHOR(S): Lacombe, Benoit; Pilot, Guillaume; Michard, Erwan; Gaymard,
Frederic; Sentenac, Herve; Thibaud, Jean-Baptiste [Reprint
author]
CORPORATE SOURCE: Biochimie et Physiologie Moleculaire des Plantes, UMR 5004,
Agro-M/CNRS/INRA/UM2, Place Viala, 34060, Montpellier Cedex
1, France
SOURCE: Plant Cell, (June, 2000) Vol. 12, No. 6, pp. 837-851.
print.
CODEN: PLCEEW. ISSN: 1040-4651.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 30 Aug 2000
Last Updated on STN: 8 Jan 2002

AB. . . were used to identify a single K⁺ channel gene in Arabidopsis as
expressed throughout the plant. Use of the beta-glucuronidase
reporter gene revealed expression of this **gene**
, AKT2/AKT3, in both source and sink phloem tissues. The AKT2/AKT3 gene
corresponds to two previously identified cDNAs, AKT2 (reconstructed at. .

IT . . .
Circulation
IT Parts, Structures, & Systems of Organisms
phloem, sink tissue, source tissue
IT Chemicals & Biochemicals
abscisic acid: phytohormone; **shaker-like potassium**
ion channel: expression, weak rectification; Arabidopsis AKT2
gene; Arabidopsis AKT2/AKT3 gene: expression; Arabidopsis AKT3 gene

L8 ANSWER 8 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 1999:181033 BIOSIS
DOCUMENT NUMBER: PREV199900181033
TITLE: Expression of a potassium channel-**reporter**
gene fusion protein in cultured hippocampal
neurons.

AUTHOR(S): Kilani, R. K.; Falk, T.; Yool, A. J.; Sherman, S. J.
 CORPORATE SOURCE: Dep. Neurol., Univ. Arizona, Tucson, AZ 85724, USA
 SOURCE: FASEB Journal, (March 12, 1999) Vol. 13, No. 4 PART 1, pp. A472. print.
 Meeting Info.: Annual Meeting of the Professional Research Scientists for Experimental Biology 99. Washington, D.C., USA. April 17-21, 1999.
 CODEN: FAJOEC. ISSN: 0892-6638.

DOCUMENT TYPE: Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 5 May 1999
 Last Updated on STN: 5 May 1999

TI Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

IT . . .

IT Parts, Structures, & Systems of Organisms
 cell membrane; hippocampal neurons: nervous system, cultured; voltage-gated potassium channels; Golgi apparatus; Kv1.4, **shaker-type potassium channel**

IT Diseases
 focal epilepsy: nervous system disease
 Epilepsy (MeSH)

IT Chemicals & Biochemicals
 enhanced green fluorescent protein: fluorescent reporter; potassium channel-**reporter gene** fusion protein: expression

L8 ANSWER 9 OF 11 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1999:317889 BIOSIS

DOCUMENT NUMBER: PREV199900317889

TITLE: Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

AUTHOR(S): Kilani, R. K. [Reprint author]; Falk, T. [Reprint author]; Yool, A. J. [Reprint author]; Sherman, S. J. [Reprint author]; Witte, M. H. [Reprint author]

CORPORATE SOURCE: Department of Neurology, University of Arizona, Tucson, AZ, 85724, USA

SOURCE: Journal of Investigative Medicine, (April, 1999) Vol. 47, No. 4, pp. 196A. print.

Meeting Info.: Meeting of the American Federation For Medical Research at Experimental Biology '99. Washington, D.C., USA. April 16-18, 1999. American Federation for Medical Research.

ISSN: 1081-5589.

DOCUMENT TYPE: Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 17 Aug 1999
 Last Updated on STN: 17 Aug 1999

TI Expression of a potassium channel-**reporter gene** fusion protein in cultured hippocampal neurons.

IT . . .
 green fluorescent protein: fluorescent reporter, small protein; potassium channel: voltage-gated; Kv1.4-EGFP fusion protein [Kv1.4-enhanced green fluorescent protein fusion protein]; Kv1.4: **shaker-type potassium channel**

L8 ANSWER 10 OF 11 MEDLINE on STN DUPLICATE 4

ACCESSION NUMBER: 97264425 MEDLINE

DOCUMENT NUMBER: PubMed ID: 9110258

TITLE: Tissue-specific alternative splicing of **Shaker potassium channel** transcripts results from distinct modes of regulating 3' splice choice.

AUTHOR: Iverson L E; Mottes J R; Yeager S A; Germeraad S E
CORPORATE SOURCE: Division of Neurosciences, Beckman Research Institute of
the City of Hope, Duarte, California 91010, USA.
CONTRACT NUMBER: NS18858 (NINDS)
NS28135 (NINDS)
SOURCE: Journal of neurobiology, (1997 May) 32 (5) 457-68.
Journal code: 0213640. ISSN: 0022-3034.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199706
ENTRY DATE: Entered STN: 19970630
Last Updated on STN: 19970630
Entered Medline: 19970616

TI Tissue-specific alternative splicing of **Shaker potassium**
channel transcripts results from distinct modes of regulating 3'
splice choice.

AB . . . enables a single gene to encode multiple protein isoforms with
different functional characteristics and tissue distributions.
Differential splicing of *Drosophila Shaker* (Sh) gene transcripts
regulates the tissue-specific expression of kinetically distinct
potassium ion channels throughout development.
Regulation of Sh alternative splicing is being examined in germline
transformants using lacZ as a **reporter gene**.
P-element constructs were generated in which one or both of the two
mutually exclusive Sh 3' acceptor sites were positioned. . .

CT *Alternative Splicing: PH, physiology
Animals
*Drosophila melanogaster: GE, genetics
Gene Expression Regulation: PH, physiology
Genes, Insect: GE, genetics
Genes, Reporter
Lac Operon
Muscles: CH, chemistry
Muscles: PH, physiology
Mutagenesis: PH, physiology
Organ Specificity
*Potassium Channels: GE, genetics
RNA. . .

RN 143403-88-7 (**Shaker potassium channels**)

L8 ANSWER 11 OF 11 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 95209868 MEDLINE

DOCUMENT NUMBER: PubMed ID: 7695908

TITLE: Tissue-specific alternative splicing of hybrid Shaker/lacZ
genes correlates with kinetic differences in Shaker K+
currents in vivo.

AUTHOR: Mottes J R; Iverson L E

CORPORATE SOURCE: Division of Neurosciences Beckman Research Institute of the
City of Hope, Duarte, California 91010.

CONTRACT NUMBER: NS18858 (NINDS)
NS28135 (NINDS)

SOURCE: Neuron, (1995 Mar) 14 (3) 613-23.
Journal code: 8809320. ISSN: 0896-6273.

PUB. COUNTRY: United States

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AB . . . diversity, clear tissue-specific differences in the distribution

of particular Sh gene products have not been demonstrated. Using lacZ as a **reporter gene** for accurate splicing of variable Sh3' domains, we observe differences in beta-galactosidase expression patterns in transgenic animals that indicate both. . . .

RN 143403-88-7 (**Shaker potassium channels**)